Features

■ Diverse File Playback

You can playback MPEG 1/2/2.5/3 LAYER3, WMA, and ASF files

■ High Quality Recording

You can make high quality recordings covering voices at 96Kbps, for external devices at 256Kbps, and for FM at 192Kbps.

■ Voices, External Devices, FM channel Recording

You can make recordings of MP3 encoding through external devices and FM channels as well as voices.

■ FM Reception

You can manually and automatically seek FM stations.

■ DBB Setting (Digital Bass Boosting)

You can enjoy listening to deep and realistic FM stations with boosted bass.

■ FM Frequency Auto Memory

You can memorize and listen to a maximum of 16 FM stations.

■ Time Display

Displays current time for your convenience.

■ High Speed Message Searching

You can guickly search the desired part during playback.

■ Section Repeat Playback

Desired section can be played repeatedly.

■ Repeated Playback

Desired file can be played repeatedly.

■ EQ Selection

You can choose EQ mode among NORMAL, CLASSIC, LIVE, ROCK, POP, DBB, USER1, and USER2 during playback.

■ Monitoring Recording

You can listen to the contents of what you are recording through the earphones.

■ High Quality External Microphone (Built in Amp)[option]

The high quality external microphone(Built in Amp) enables even whispers or tiny sounds to be vividly recorded

■ USB Digital Interface (USB)

USB interface enables you to directly connect to a PC for file downloads, recorded message storage, editing, and e-mailing.

■ Auto Power Off Setting

You can set auto power off time so that the power automatically turns off when the unit is not in use for a due time.

■ VOR Recording

This function allows recording only when there is sound. You can utilize the recording time to the maximum.

■ LCD backlight

The LCD backlight enables you to read the display in the dark

■ TTS(Text To Speech)[option]

You can use the Text To Speech conversion software to convert text into audible speech.

■ M-Sync[option]

You can check out the lyric information when the file has lyrics.

■ Firmware Upgrading

This function enables the file playback of next generation music formats. You can use its last performance by adding or complementing functions.

■ Portable Save Device

File downloading or editing through a PC is available while carrying them.

■ Providing Countless Folder



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Using Recording · Playback

|Using FM|

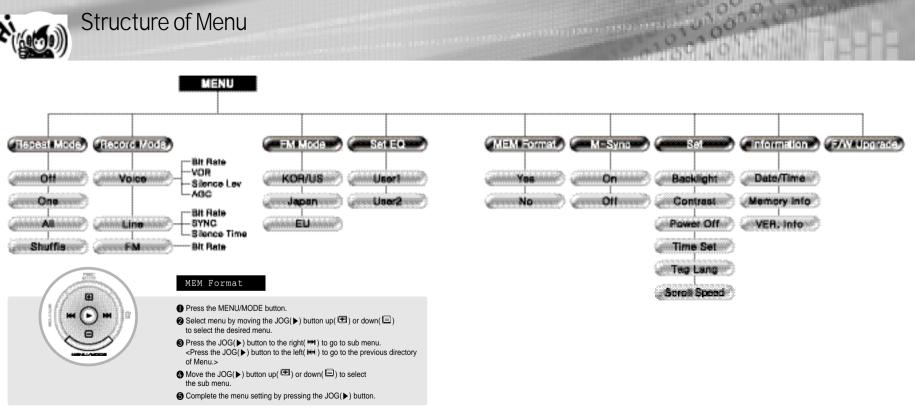
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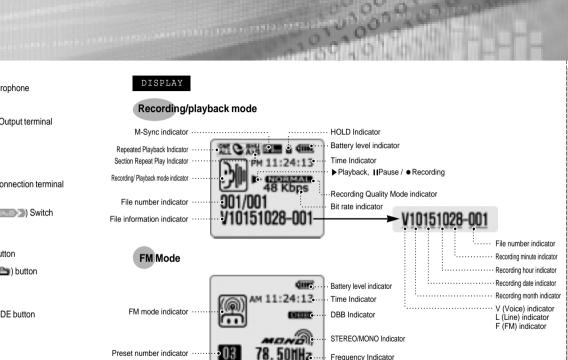


Name of Each Part

BOTTOM







Package Contents



Installing the Battery



























Open the battery cover.

 While pressing down the mark (open), push the cover outward. Inserting two batteries(AAA) with the correct polarity as indicated by the \oplus and \ominus symbols, Close the cover while pressing down (---).

The replacement of batteries does not delete the saved files.

(IIII) Full











• When not wanting to use the digital audio player, set the HOLD function which prevents the discharge of the batteries through accidental pressing of buttons.

Note • If the playback or recording function does not operate normally, and "Low Battery" appears in the display, replace the batteries.

Power On / Off



Setting HOLD Function

Hold function locks all the button functions while retaining the current state to prevent unwanted operation by mistake.

To Set HOLD



Power On

Press JOG(▶)button.

Power is turned on.



Power Off

Automatic Power Off.

 The power automatically turns off when the player is not in use for the set time of Power off at PAUSE or STOP mode of Recording/Playback. (Please refer to page 34~35 for instructions on how to set the time for Power off.)



Manual Power Off.

 The power manually turns off when pressing and holding the JOG(▶) button for a few seconds in PAUSE or STOP mode of Recording/Playback or in FM mode.



Slide HOLD switch in the direction of arrow(1).

- The symbol (⁶) appears and HOLD is set.
- If you press any button when HOLD is set, "HOLD" appears in the display and does not respond to any operation.





To Release Hold

Slide HOLD switch in the direction of arrow (].

The symbol (☐) disappears and HOLD is cancelled.





Switch Mode / Volume Adjustment



Selecting Folder / File

Folder or file can be selected for playback.





Switch Mode

In Pause Stop State of Recording · Playback or FM mode

Press the MENU//MODE button for a few seconds.

 At every press of the button for a few seconds. REC/PLAY or FM Mode is alternatively switched.



Recording · Playback mode



Volume Adjustment

Volume can be adjusted from level 0 to 20.

Move the JOG(▶) button up(⊕) or down() to adjust the volume.

 Press button to increase the volume. Press D button to decrease the volume.

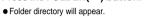






In Playback, Pause, Stop State of Recording · Playback

Press the FOLDER(⊕) button.





Select a folder by moving the JOG(▶) button up(⊕) or down(□), and then press the $JOG(\triangleright)$ button to the right(\bowtie).



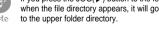
• File directory will appear.

Select a folder by moving the JOG(▶) button up(\oplus) or down(\ominus).





 If you press the JOG(▶) button to the left(◄ when the file directory appears, it will go to the upper folder directory.



Recording

To record, please position the built-in microphone toward the sound source.



Playback





Press the REC/STOP button.

 Recording begins with the display showing the recording indicator, bite rate, file number. and recording elapsed time. The folder automatically selects VOICE folder and the file number is selected from the next number to the previously recorded file.



To Stop Recording

Press the REC/STOP button once again.

• The recording indicator goes off and recording stops.





- To record connecting to external devices, please refer to page 46.
- To record connecting to external microphone(Built in Amp). please refer to page 48.





To Start Playback

Select a folder/file to play.

 For the instruction of folder/file selection Refer to page 14.



Press the JOG(▶) button or press it to the right(>>).

• The display indicates the playback sign, file number, playback elapsed time, and file information while starting playback.



To Pause Playback

Press the JOG(▶) button once again.

 Playback is paused. If pressing JOG(▶) button once more, it starts playback from the paused point.



To Stop Playback

Press the JOG(▶) button in pause state to the left(\bowtie) or right(\bowtie).

• The previous or next file will be selected and Playback will stop.







Playback(Continued)







 If you press the MENU/MODE button during playback, you can set Menu functions.

To play other files during playback

Move the JOG(▶) button to the right(>>>) briefly during playback.

The Audio Player stops playing the current file and starts playing the next file.

Move the JOG(▶) button to the left(⋈) briefly during playback.

Playback of the current file is stopped and the previous file is played back.
However, in case file playback elapses for more than 5 seconds,
playback will move to the first part of the file.

To search for the desired section within a file

Move the $JOG(\triangleright)$ button to the right(\bowtie) for a few seconds during playback.

Moves to the latter part of a file and it is played back.

Move the $JOG(\triangleright)$ button to the left(\bowtie) for a few seconds during playback.

• Moves to the former part of a file and it is played back.

To select other files during stop mode

Move the JOG(▶) button to the left(⋈) or right(⋈) during STOP mode.

• At every brief pressing of the JOG(▶) button, the previous or next files are selected in sequence. Pressing on the JOG(▶) button for a period of time will allow you to select them quickly.





To play the file of another folder during playback

Press the FOLDER() button during Playback.



2 Select desired folder by moving the JOG(▶) button up(⊕) or down(□), and then press the JOG(▶) button to the right(►).



- When the file directory appears, press the JOG(▶)button to the left(◄) which will move in the folder directory. Then, select the desired folder by moving the JOG(▶) button up(₤) or down(ܩ) and press the JOG(▶) button to the right(▶).
- 3 Select desired folder by moving the JOG(▶) button up(⊞) or down(□), and then press the JOG(▶) button.
 - Selected folder's file is played back.







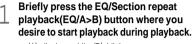
Section Repeat Playback



Select the EQ

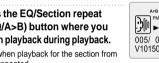
According to the music genre of each file, the recording mode can be adjusted among classical music, live concert, Rock, Pop, DBB, user1, and user2.

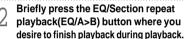






• 'A' displays while 'B' blinks.



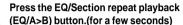


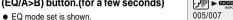
- 'B' displays when playback for the section from 'A' to 'B' is repeated.
- Pressing the EQ/Section repeat playback(EQ/A>B) button once again during section repeat playback will cancel that function and proceed with playback.





In the Playback or a Stop State







Briefly press the EQ/Section repeat playback(EQ/A>B) button.

- ullet NORMAL \rightarrow CLASSIC \rightarrow LIVE \rightarrow ROCK \rightarrow POP \rightarrow DBB \rightarrow USER1→ USER2 are displayed in sequence.
- If you select USER1 or USER2, you can listen in the mode where you set USER EQ mode(please refer to page 31).



• If you don't press EQ/Section repeat playback(EQ/A>B) button for longer than 3 seconds, the EQ mode is automatically cancelled.





Delete a File

This function deletes a selected file.





In Playback, Pause, Stop State of Recording · Playback

Select the desired folder. of folder/file selection.



Briefly press the MENU/MODE button.

Please refer to page 14 for the instruction



Move the JOG(▶) button or move it to the right (\bowtie) .



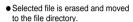
Move the JOG(▶) button up(⊕) or down(□) to select YES.







Press the JOG(▶) button.



• File number is automatically allocated.

Erasing!!

To delete further files, repeat the procedures as above, number 2 ~ 5.



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• If you do not press the JOG(▶) button within 10 seconds or press the MENU/MODE button or FOLDER() button at the procedure number 2 shown "ERASE FILE?". then deletion is cancelled.



· Deleted files can not be recovered.





Delete All the Files in the Selected Folder

This function deletes all files in the selected folder.



Setting Repeat Playback Mode

With this function, the desired file can be played repeatedly



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MENUZMODE

In Playback, Pause, Stop State of Recording · Playback





 Please refer to page 14 for the instruction of folder/ file selection.





Move the JOG(▶) button or move it to the right(₩).



Move the JOG(▶) button up(⊕) or down() to select "Yes".



Press the JOG(▶) button.

All the files in the selected folder are deleted.







In the Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 1. Repeat Mode then, press the JOG(▶) button to the right(\rightarrow).



Move the JOG(▶) button up(⊕) or down() to select the Repeat Mode then, press the JOG(▶) button.



• This will complete the setting and take you to the previous directory of Menu.

REPEAT

- 1. Off: Do not set repeat playback
- 2. One: Set repeat playback for one file.
- 3. All : Set repeat playback for all files within selected folder.
- 4. Shuffle: Set repeat playback without order for all files within selected folder.



- Pressing the JOG(▶) button to the left(◄) will take you to the previous directory of menu.
- · After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.





Setting Recording Mode

You can set recording mode for the recording of Voice, external devices, FM radio







- If you press the JOG(▶) button to the left(₩), this will take you to the previous directory of Menu.
- · After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.



in Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 2. Record Mode then, press the JOG(▶) button to the right (\bowtie) .



Move the JOG(▶) button up(⊕) or down(=) to select 1. Voice then, press the JOG(▶) button to the right(>→).



Move the JOG(▶) button up(⊕) or down(□) to select the desired menu then, press the JOG(>) button to the right(₩).



Move the JOG(▶) button up(⊕) or down() to select the desired menu then. press the JOG() button to the right.



• This will complete the setting and take you to the previous directory of Menu.



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Bit Rate: Select the signal transmission rate.

The higher number the better quality.



VOR: Record only when there is sound, otherwise pause recording.

1.ON: Select ON when wanting to use VOR recording.

2.Off: Select OFF when not wanting to use VOR recording.



Silence Lev: Set a sound sensor level in VOR ON state.

- . LOW Level : Sensitively senses quiet sounds
- MID Level : Sense normal sounds
- HIGH Level : Sense loud sounds



AGC: adjust recording level to record properly even distant sounds.

- 1.Off: Select OFF when not wanting to use AGC recording.
- 2. ON: Select ON when wanting to use AGC recording.



Setting Recording Mode(continued)







- If you press the JOG(▶) button to the left(◄), this will take you to the previous directory of Menu.
- After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode



in Playback, Pause, Stop State of Recording · Playback

¬ Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(⊡) to select 2. Record mode then, press the JOG(▶) button to the right(►).



Move the JOG(▶) button up(⊕) or down(□) to select 1.Speak then, press the JOG(▶) button to the right(▶).



Move the JOG(▶) button up(⊕) or down(□) to select the desired menu then, press the JOG(▶) button to the right(▶).



Move the JOG(▶) button up(⊕) or down(□) to select the desired menu then, press the JOG(▶) button to the right.



 This will complete the setting and take you to the previous directory of Menu.



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Bit Rate : select the signal transmission rate.

• The higher number means better quality.



Sync: When recording CD, creates each file per song by sensing the intervals between songs.

- Sync OFF : Cancels the function of sensing intervals between songs.
- Sync ON: Creates each file per song by sensing the intervals between songs in the whole CD.
- 3. Sync 1 ON : Create one file by sensing intervals between two songs.



Silence Time: A lapse sensing the intervals between songs during CD recording.

Available to set from 1 to 5 second.



Setting Recording Mode(continued)



Setting FM Mode

When setting FM radio stations, you can set it to increase the frequency by 0.1MHz or 0.05MHz.





- If you press the JOG(▶) button to the left(<). this will take you. to the previous directory of Menu.
- · After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.

FM Recording

in Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 2. Record Mode then, press the JOG(▶) button to the right(₩).



Move the JOG(▶) button up(⊕) or down() to select 3. FM then, press the $JOG(\triangleright)$ button to the right(\triangleright).



Move the JOG(▶) button up(⊕) or down(□) to select the desired menu then, press the JOG(>) button.



The higher number the better quality







- If you press the JOG(▶) button to the left(◄), this will take you to the previous directory of Menu.
- · After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.

In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down() to select 3. FM Mode then. press the JOG(▶) button to the right(₩



Move the JOG(▶) button up(⊕) or down(□) to select 3.FM then, press the JOG(▶) button.



FM STEP

- 1. KOR/US type: 87.5MHz~108MHz Frequency increased by 0.1MHz
- 2. Japan type: 76MHz~108MHz Frequency increased by 0.1MHz
- 3. EU type: 87.5MHz~108MHz Frequency increased by 0.05MHz



Setting USER EQ

You can listen to music after setting EQ mode of your choice.



Formatting

Your can delete all the folders and files at once



In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



 \oplus MENILIZMODE

If you press the JOG(▶) button

· After finishing the setting,

wait for a moment or press

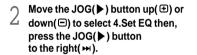
to complete the setting and

exit the menu setting mode.

the MENU/MODE button

to the left(!), this will take you

to the previous directory of Menu.





Move the JOG(▶) button up(⊕) or down(□) to select USER1 or USER2 then, press the JOG(▶) button to the right (\bowtie) .

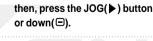


Move the JOG(▶) button left(⋈) or right(→) to select the desired menu then, press the JOG(▶) button up(⊕)



Press the JOG(▶) button.

• This will complete the setting and take you to the previous directory of Menu.







 \oplus

In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down() to select 5. MEM Format then. press the JOG(▶) button to the right(>→).



Move the JOG(▶) button up(⊕) or down() to select "Yes".



Press the JOG(▶) button.





 If you press the JOG(▶) button to the left(◄), this will take you to the previous directory of Menu. Note



· Deleted files can not be recovered



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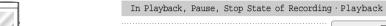
Setting M-Sync

You can check out the lyrics of songs which have lyrics.



Setting Backlight/Viewing LCD Display /Auto Power Off Time

You can set backlight elapse time. LCD display luminosity, and automatic power off time





Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down() to select 6. M-Sync then. press the JOG(▶) button to the right(₩).



Move the JOG(▶) button up(⊕) or down() to select M-Sync then, press the JOG(▶) button.



 This will complete the setting and take you to the previous directory of Menu.

- 1. On: Select On to check out the information of the lyrics.
- 2. OFF: Select Off not to check out the information of the lyrics.



- If you press the JOG(►) button to the left(► this will take you to the previous directory of Menu.
- After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.





In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 7. Set then. press the JOG(▶) button to the right(→).



Move the JOG(▶) button up(⊕) or down(□) to select one of the menu between 1 ~ 3, then press the JOG(▶) button to the right(>>).





- If you press the JOG(▶) button to the left(◄), this will take you to the previous directory of Menu.
- · After finishing the setting, wait for a moment or press MENU/MODE button to complete the setting and exit the menu setting mode.





Setting Backlight/Viewing LCD Display / Auto Power Off Time(continued)

You can set backlight elapse time. LCD display luminosity, and automatic power off time.

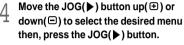
SET



Setting Current Time

Setting the current time is convenient to figure out the recording time.







• This will complete the setting and take you to the previous directory of Menu.



Backlight: Set backlight elapse time.

 Available to set by 5.10.20.30.40.50.60 seconds, and always in sequence.



- Available settings 1 to 10 steps.
- The higher number the brighter.

Power-off: Set the time for automatic power off when the unit is not in use to reduce the battery consumption.

Available to set 1 to 10 minutes.





In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 7. Set then. press the JOG(▶) button to the right(>→).



Move the JOG(▶) button up(⊕) or down(□) to select 4. Time Set then, press the JOG(▶) button to the right (>>>).



Press the JOG(▶) button to the right(→) and select "Year" by moving the JOG(▶) button up(⊕) or down(\square).







 \oplus

MENILIZMODE

Setting Current Time(continued)

Setting the current time is convenient to figure out the recording time.



Setting Tag Language

When playback music which has Tag information, this function indicates Tag information in multi-language



Move the JOG(▶) button to the left and move to "Month" by moving the JOG(▶) button down(□).



Move the JOG(▶) button to the right(൝) and select "Month" by moving the JOG(▶) button up(⊕) or down(□).



- Set Second, Minute, Hour, and Date by repeating the above procedures of number 5 ~ 6, then press JOG() b) button.
 - This will complete the setting and take you to the previous directory of Menu.



- If you press the JOG(▶) button to the left(⋈), this will take you to the previous directory of Menu.
- After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.
- Set time is saved for approximately one month through the function of the built-in battery even though there is no battery loaded





In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 7. Set then, press the JOG(▶) button to the right(↦).



Move the JOG(►) button up(⊕) or down(□) to select 5. Tag Lang then, press the JOG(►) button to the right(►).



Move the JOG(▶) button up(⊕) or down(⊕) to select Tag Language then, press the JOG(▶) button.





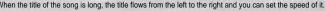
- If you press the JOG(▶) button to the left(◄), this will take you to the previous directory of Menu.
- After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.





Setting Scroll Speed

When the title of the song is long, the title flows from the left to the right and you can set the speed of it.







In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



FE MENU

6 M-Sync 7 Set

3.FM Mode 4.Set EQ 5.MEM Format

 \oplus MENU/MODE

If you press the JOG(▶)

· After finishing the setting,

wait for a moment or

will take you to the previous

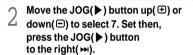
press the MENU/MODE button

to complete the setting and

exit the menu setting mode.

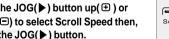
button to the left(!).

directory of Menu.





Move the JOG(▶) button up(⊕) or down(□) to select 6. Scroll Speed then, press the JOG(▶) button to the right(₩).





Move the JOG(▶) button up(⊕) or down() to select Scroll Speed then, press the JOG(>) button.

- 1. SLOW: Scroll in slow speed 2. NORMAL : Scroll in normal speed
- 3. FAST: Scroll in fast speed





Current Date, Time/Display Memory/Version Information





In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(□) to select 8. Information. then, press the JOG(▶) button to the right(>>).



Move the JOG(▶) button up(⊕) or down() to select the desired menu, then, press the JOG(▶) button to the right(>>).



Check out the information on current Date, Time/memory or version.

?! MEM



1. Date/Time :

Current date

Current time

2. Memory Info: Used memory: 8MB Remaining memory: 20 MB

USED: 08MB REMAIN: 20MB



3. VER. Info: Firmware Ver. 1.0

Setting F/W Upgrading



Selection and Memory of FM Station

You can listen to FM stations by selecting it automatically or manually.

In Playback, Pause, Stop State of Recording · Playback

Briefly press the MENU/MODE button.



Move the JOG(▶) button up(⊕) or down(=) to select 9. F/W Upgrade then. press the JOG(▶) button to the right(►).



This shows "Enter PLAY KEY" Press the JOG(▶) button



Connect the USB connection cable to Digital Audio Player.



Run the MusicFriend program, then follow number 6 ~ 9 of page 56 ~ 57.



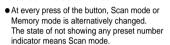




First of All! Press the MENU/MODE button for a few seconds to select the FM mode.

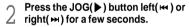
For Automatic Selection

Briefly press the JOG(▶) button to select the scan mode.





State of not showing the preset number indicator.



• Frequency is automatically increased or decreased while searching for FM stations.

For Manual Selection

Briefly press the JOG(▶) button to select the scan mode.

> At every press of the button. Scan mode or Memory mode is alternatively changed. The state of not showing any preset number indicator means Scan mode



Briefly press the JOG(▶) button $left(\bowtie)$ or $right(\bowtie)$.

• Frequency is increased by 0.1 MHz or 0.05MHz and you can search for FM stations of your choice.



 Please refer to page 56~57 for the instruction of F/W Upgrade in detail.

 \oplus

MENUZMODE



Selection and Memory of FM Station(continued)



Automatic Preset

You can listen to preset FM station from number 1 to 16.

For the memory of selected frequencies

FM Mode menu appears.





 \oplus MENU/MODE Move the JOG(▶) button up(⊕) or down(□) to select 1. FREQ. Save then, press the JOG(>) button to the right(₩).



Move the JOG(▶) button up(⊕) or down(□) to select Preset Number then, press the JOG(▶) button.



 Selected frequencies are saved in preset number.



 If you press the JOG(▶) button to the left(◄). this will take you to the previous directory of Menu.

. After finishing the setting, wait for a moment or press the MENU/MODE button to complete the setting and exit the menu setting mode.





Briefly press the MENU/MODE button.

FM Mode menu appears.



Move the JOG(▶) button up(⊕) or down(□) to select 2. Auto Preset then, press the JOG(▶) button.

 Memory automatically received FM stations from number 1 to 16



1 FREQ. Save 2 Auto Preset

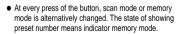
FE MENU

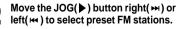
Auto Preset

107.70MHz

To listen to the set FM station

Briefly press the JOG(▶) button to select indicator memory mode.





 You can listen to preset FM stations from number 1 to 16





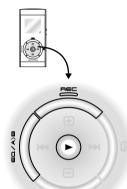


Recording FM Station

You can record anytime you listen on FM stations.



Connecting to Audio System



To Start Recording FM Stations

Press the REC/STOP button while listening to FM stations

 LCD display shows recording indicator, bite rate. file number, and recording elapse time, while the unit starts recording. The unit automatically selects FM Folder. and next file number to the one last recorded.



To Finish Recording FM Stations

Press the REC/STOP button once again.

 Recording indicator disappears and the unit stops recording



DBB Setting

Press the EQ/Section Repeat Playback (EQ/A>B) button while listening to FM stations.

 This will show DBB ON and DBB OFF mode alternatively.





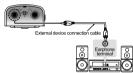


- · Adjust the recording sound volume with the JOG(►) button of the unit by pressing up(⊕)or down(□) or with the Audio Volume Controller
- · Recording quality may be affected by the performance of the external device.
- · Recording stops when the external device connection cable is pulled out during recording.

To Record the contents of the Audio into the unit(Digital Audio Player)

Connect the unit to the audio system.

 Connect the External microphone/Line-in terminal of the unit to the Earphone terminal of the audio system using the supplied external device connection cable.



To Start Recording

Press the REC/STOP button and the PLAY button of the audio system simultaneously.

- The unit starts recording the contents of the audio system.
- LCD display shows recording indicator, bite rate, file number, and recording elapse time, while the unit starts recording. The unit automatically selects the LINE-IN Folder. and next file number to the one last recorded.

To Stop Recording

Press the REC/STOP button and the PLAY button of the audio system simultaneously.

The unit stops recording.



Connecting to Audio system(continued)



Recording through an External Microphone (Built in Amp) You can record a message while on the move by mounting the external microphone (Built in Amp) on



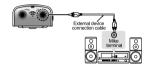


- · Adjust the recording sound volume with the JOG(▶) button of the unit by pressing up(⊕)or down(□) or with the Audio Volume Controller
- · Recording quality may be affected by the performance of the external device.

To Record the contents of the Audio into the unit(Digital Audio Player)

Connect the unit to the audio system.

• Connect the Earphone/Output terminal of the unit to the Microphone terminal of the audio system using the supplied external device connection cable.



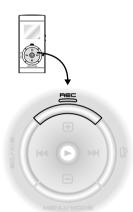
To Start Recording

- Select the file to be recorded.
- Please refer to page 14 for the instruction of file selection.
- Press the JOG(▶) button of the unit and the REC button of the audio system simultaneously.
 - The selected file in the unit is recorded into the audio system.

To Finish Recording

Press the JOG(▶) button of the unit and the STOP button of the audio system.

Recording stops.



To record connecting to external microphone(Built in Amp)

Connect external microphone(Built in Amp) to the unit(Digital Audio Player)

 Plug the external microphone(Built in Amp) into the External microphone /Line-in input terminal of the unit.





Press the REC/STOP button.

- Voice is recorded through the external microphone (Built in Amp).
- LCD display shows recording indicator, bite rate, file number, and recording elapse time, while the unit starts recording. The unit automatically selects LINE-IN Folder, and next file number to the one last recorded.

To Finish Recording

Press the REC/STOP button once again.

Recording stops.

Listening through Earphones

Plug the earphone to the Earphone/ Output terminal.

 You can hear the contents of what is recorded through earphones. The recording volume can be adjusted by moving the JOG(▶)button up()or down().



Connecting to a PC You can make a copy from/to the file of the Digital Audio Player to/from the file of a PC

as well as the functions of playback, editing, and emailing.

Installation of MusicFriend

- For the users of Windows 98/ME OS, you should install MusicFriend onto the PC prior to connecting the Digital Audio Player to the PC.
- For the users of Windows 2000/XP, you do not need the installation of MusicFriend, as the OS recognizes it as "portable disk".
- Install MusicFriend prior to the upgrading of Firmware and Font.

System Requirement

- · Computer: IBM-compatible, Intel Pentium(or highter) based with USB port support
- · Memory: 64MB of RAM or above
- OS: Windows 98/ME/2000/XP/Mac OS(9.0 or above)
- · Hard Disk: 30MB or above free space
- · For Recording: Sound card and microphone
- Put the driver of MusicFriend in CD-ROM drive.
 - Installation window appears...

Select a right operational system for MusicFriend.

When not wanting to install, click "Exit".



MusicFriend set up window appears.

CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PARTY O



 Music Friend main set up window appears in a due time



Select Language to be used for installation and then click "Ok".



 Music Friend main set up window appears. MUSIC FRIEND MP-200 P. DESCRIPTION

Click Next button.



Click Yes button.





Type in your name and company name and click Next button.



Click Next button.



Click Next button.



Click Finish button

 Installation has been completed and the shortcut icon appears on your desktop.



You will then be asked to restart vour computer. Please click "Ok"

> • Computer is rebooted and the installation is complete.



Installation of Portable Drivers(for Windows 98)

AND ALL DO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PR

When you desire to use the digital Audio Player on Windows 98, you should install the MusicFriend driver first. On the completion of installation, connect the digital Audio Player to the PC, using USB connection cable. Then a dialog box as below appears and a portable disk driver is automatically installed.



Once the driver is installed as above, it is automatically recognized and run in the next connection so that a further installation is unnecessary.

• For the users of Windows 2000/XP, you do not need the installation of MusicFriend, as the system recognizes the Digital Audio Player as "portable disk".

Installation of USB Driver

For the upgrading of Firmware and Font. regardless of OS, USB driver as well as MusicFriend should be installed as follows.

Installation of USB Driver(for Windows 98)

- 1. Press the MENU/MODE of Digital Audio Player.
- 2. Move the JOG button up(⊕) or down(□) to select 9. F/W Upgrade, then press the JOB(▶) button to the right (\blacktriangleright) .
- 3. When LCD display shows Enter PLAY KEY, press the JOG(▶) button.
- 4. Connect USB connection cable to Digital Audio Player.
- 5. USB driver is automatically installed while a dialogue box appears as below.



Once driver is installed as above, it is automatically recognized and run in the next connection so that a further installation is unnecessary.



Installation of USB Driver(for Windows 2000)

- 1. Press the MENU/MODE of Digital Audio Player.
- 2. Move the JOG button up(⊕) or down(□) to select [9, F/W Upgrade], then press the JOB(▶) button to the right (\blacktriangleright) .
- 3. When LCD display shows Enter PLAY KEY, press the JOG(▶) button.
- 4. Connect USB connection cable to Digital Audio Player.
- 5. USB driver is automatically installed when a dialogue box appears as below.



Once driver installed as above, it is automatically recognized in the next connection so that a further installation is unnecessary.

Installation of USB Driver(for Windows XP)

- 1. Press the MENU/MODE of Digital Audio Player.
- 2. Move the JOG button up(⊕) or down(□) to select [9. F/W Upgrade], then press JOB(►) button to the right ().
- 3. When LCD display shows Enter PLAY KEY. press the JOG(▶) button.
- 4. Connect USB connection cable to Digital Audio Player.
- 5. When a dialogue box appears as below, press the Next button.



6. If a dialogue box of the Hardware Installation appears, that means there are no problems both in the system and program. Therefore, continue to click the Continue button.



7. Once the USB driver is installed properly by following the procedures. [New Hardware Searching Wizard Completion] the window appears.



Once driver installed as above, it is automatically recognized and run in the next connection so that a further installation is unnecessary.

Using Online Help

Instructions for use are provided in detail in the help. Once the installation is complete, the shortcut icon appears on your desktop.

- 1. Double-click the shortcut icon MusicFriend is run
- 2 Select the HFI P from the main menu.
 - Help appears.

Deleting MusicFriend

Select menus in the sequence of : Start PC \rightarrow Setting \rightarrow Control panel → Add/Remove Program → MusicFriend MP-200 Ver 1 00 → Add/Remove

Type 2 Select menus in the sequence of: Start PC→ Program →MusicFriend → MP-200 →UnInstall MP-200.

File Running

In the case of uploading the file in Digital Audio Player to a PC or, downloading the file on a PC to Digital Audio Player, run the file using the Windows search program or MusicFriend program

CAUTION:

• After finishing downloading, please wait until the message of "On Air" appears on the LCD display of the Digital Audio Player to unplug the USB connection cable.



Separation of USB Connection Cable

When separating the USB connection cable from the Digital Audio Player, ensure it is done safely.

Separation of USB Connection Cable(for Windows 98)

- 1. Click the right mouse button on the "Portable disk" of the windows search engine folder on your PC.
- 2. Perform the "withdrawal" when the screen shows as below



3. Separate the USB connection cable from the Digital Audio Plaver.

Separation of USB Connection Cable(for Windows 2000 XP)

- Click the left mouse button on the "Hardware. Separation or withdrawal () from the title bar icon located at the bottom of Desktop.
- 2. When the screen says "Save device for USB mass storage - Drive Stop" as below, then click it.

USB mans immage dening - stop drive [71]

3. When a dialogue box says "Hardware safe delete" as below, click Ok.



4. Separate USB connection cable from the Digital Audio Player.

CAUTION:

 When failing to safely separate hardware, please stop the operation of the PC, otherwise this may cause damage to the data.

Firmware Upgrading

Caution!

The USB driver should be installed to perform Firmware upgrading. Otherwise, please install the USB driver, referring to the instruction of "USB Driver Installation".

- 1. Run MusicFriend program.
- 2. Press MENU/MODE button of Digital Audio Player. 3. Move the JOG button up(⊕) or down(□)
- to select 9. F/W Upgrade, then press JOB(▶) button to the right ().
- 4. When LCD display shows Enter PLAY KEY, press the JOG(▶) button.
- 5. Connect USB connection cable to Digital Audio Player.
- 6. Click Firmware upgrading button(from the toolbar of MusicFriend program.
- 7 Select Firmware file downloaded from the Internet at the (Open) dialogue box.



8. If you select a right Firmware file, then its upgrading is processed.

Caution: Do not unplug the USB connection cable while upgrading is under processing.



 Once Firmware upgrading has been properly completed, a dialogue box saying (Firmware Upgrading Succeeded) appears.



Caution:

- After completing Firmware upgrading, unplug the USB connection cable from the Digital Audio Player and ensure that the Digital Audio Player should be powered off and on again.
- In case any problems arise during Firmware upgrade, please try Emergency Repair method as below.

Firmware Emergency Repair

Caution!

The USB driver should be installed to perform
Firmware upgrading. Otherwise, please install the USB driver,
referring to the instruction of "USB Driver Installation".

- 1. Run MusicFriend program.
- 2. Remove batteries from Digital Audio Player.
- 3. Slide HOLD switch() in the direction of arrow to set HOLD mode
- Press the MENU/MODE button and connect the USB connection cable to Digital Audio Player simultaneously.
- 5. Repeat the procedure of number 6 ~ 9 of Firmware upgrade.

Font Upgrade

First of All!

The USB driver should be installed to perform Font upgrades. Otherwise, please install the USB driver, referring to the instruction of "USB Driver Installation".

- 1. Run MusicFriend program.
- 2. Press MENU/MODE button of Digital Audio Player.
- 3. Move the JOG(▶) button up(⊕) or down(⊡) to select [9. F/W Upgrade], then press JOB(▶) button to the right(▶)).
- When LCD display shows Enter PLAY KEY, press the JOG(▶) button.
- 5. Connect USB connection cable to Digital Audio Player.
- Click Font upgrading button() from the toolbar of MusicFriend program.
- 7. Select the Font file downloaded from the Internet at the (Open) dialogue box.
- In case any problems arise during Font upgrading, select Font fot file in the Font folder of the unit CD.



8. If you select the right Font file, then its upgrading is processed.

Caution: Do not unplug the USB connection cable while upgrading is under processing.



 Once Font upgrading has been properly completed, a dialogue box saying (Font Upgrading Succeeded) appears.

Caution: After completing Font upgrading, unplug the USB connection cable from the Digital Audio Player and ensure that the Digital Audio Player should be powered off and on again.







M-Sync[option]

●M-Sync

M-Sync which is a synchronized program is editing software which allows the playback of MP3 files such as music, language, etc and input synchronized information to lyrics and text data.

When a synchronized file is played back in the device supporting sync function, you can check out the contents of the file through the LCD display written in a language. Also, the files' editing function such as modification, delete, attach, save, etc is provided

Basic Functions



1) MP3 OPEN

Bring up the MP3 file to be synchronized.



After selecting the MP3 file synchronized and click the OPEN button.



- Transferred lyrics file appears.
- Select the language of lyric files.
 Default(Korean, English) / Japanese /
 Chinese-I(Simplified), Chinese-II(Original)
- ③ Transfer "ext" typed lyrics file.
- (4) Transfer 'wmi' typed lyrics file.
- S Attach the transferred lyrics file to the window of lyrics in M-Sync.
- 6 Cancel the sync job.
- 2) SYNC OPEN

Transfer lyrics files of 'wmi' type to be synchronized.

3) MP3 SAVE

Save MP3 file and lyrics file storing sync information.

MP3 file and wmi file are saved in the same name.

- mp3 : MP3 file + lyrics file storing sync information
- wmi : lyrics file storing sync information
- 4) SYNC SAVE

Save lyrics file storing sync information in 'wmi' type.

5) TAG EDITOR

Input or modify ID3 tag information such as title of song, name of singer, etc in MP3 file. Information inputted in Tag Editor can be checked out through the LCD display when the unit playback music files.



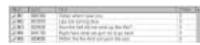
6) HELP HELP displays the information of M-Sync.

MP3 Window
 Display transferred MP3 file.



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Lyrics Window
 This basically has the attributes of Excel.



• Lyrics Editing

In the case where the check window is 'x', the lyrics are cut off in the LCD display.

For the prevention of this, edit lyrics on the Text window. Click the left button of the mouse while putting it on the lyrics of the Text window, then lyric editing is available. Click the right button of the mouse while putting it on the lyrics of the Text window, then the menu functioning delete and insert of lines/ copy and paste of blocked lyrics appears.

● Sync Input ·····

Input Sync information or delete currently inputted Sync information.



• Lyrics Window

After selecting the Preview function of synchronized files, you can check out on the Lyrics Window.



Character Setting

Character Setting enables multi-language to be properly used on the Lyrics Window. Be sure to set the proper language in line with the transferred lyrics file.

For more information, please refer to the HELP from M-Sync program.

TTS Function(TEXT-TO-SPEECH)[option]

This system converts text information into speech information. If users input text of the Internet or documents, this function converts them into speech. If you save speech files into the unit, you can carry and listen to them anytime and anywhere. You should connect the Digital Audio Player to a PC before performing TTS.

TTS Using
 Press option button to select an applicable language, then input sentence or transfer text files.



You can listen to inputted sentences by clicking the playback button.

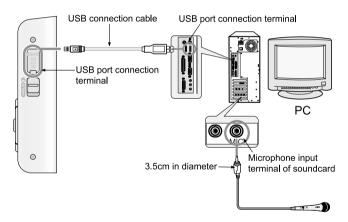


** For more information, please refer to the HELP of TTS program.

Connecting Digital Audio Player to PC

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• If you desire to utilize files more freely by using 'MusicFriend/TTS', connect Digital Audio Player to PC.





 After connecting the Digital Audio Player to a PC, please avoid touch the unit if possible.
 This may cause malfunction of the unit. Contents provided for users' safety and prevention of their loss. Please read the following carefully and use the unit properly.

For the unit



- 1. Do not drop the unit or give a shock to the unit. It may cause a malfunction.
- 2. Do not leave the unit in places described below.
- A place of very high temperature (60 °C or above)
- A place subject to direct sunlight or near heat sources
- A car with its windows closed(especially in summer)
- A place subject to excessive moisture like a bathroom
- A place subject to excessive dust
- 3. Do not apply heavy force to the LCD(Liquid Crystal Display) unit, as it may cause breakage or abnormal display taking into account the properties of liquid crystal.
- 4. If you place cards using magnetism such as cash cards. or transportation pass cards near the unit, the magnetic strips may be altered due to the magnetic fields of the unit to the point where the magnetic cards can not be used any more.
- 5. Our company does not reimburse you for any loss from the use of the unit or any demand of indemnity from a third party.
- 6. Message loss due to malfunction, repair, etc is not our responsibility. Please understand this



For the Battery

- 1. Do not short-circuit, disassemble, or heat the battery, and do not put the battery into a fire. Electrolyte such as alkaline solutions may leak out, which may get it into your eyes, or cause the generation of heat, or the breakdown of the battery.
- 2. When skin or clothes come into contact with electrolyte such as an alkaline solution, wash the area out with water immediately. If you get it into your eyes, seek immediate medical treatment after washing out the eye with water.
- 3. Do not use different kinds of batteries together.
- 4. When the unit is not in use for a long time, remove the battery from the unit.



For Your Safety

- 1. Do not repair, disassemble or modify this unit by yourself.
- 2. If smoke or deformation occurs due to the generation of heat. remove the battery from the unit immediately.
- 3. Do not use this unit in an airplane where the use of electronic devices is prohibited.
- 4. Do not use the unit while you are driving or walking. It may cause an accident.

When using Digital Audio Player

LCD doesn't work.

| Check ↑ Are the batteries flat? | Replace the batteries with a new one(Refer to page 10) |
|--|---|
| Replace the batteries with a new one(Refer to page 10) | ▶ Insert batteries with the correct polarity as indicated by the ⊕, and ⊖symbols. |

Recording doesn't work.

| Check Is the device locked by the HOLD key? | ▶ Release the HOLD key. (Refer to page 12) |
|---|--|
| Check2> Have you used all memory or file numbers? | ▶ Delete unnecessary files. (Refer to page 21~23 and page 32) |
| ©heck3 Are the batteries flat? | ▶ Replace the batteries with new ones.(Refer to page 10) |

Playback doesn't work.

| check1 Is the device locked by the HOLD key? | ➤ Release the HOLD key. (Refer to page 12) |
|--|---|
| Check 2 Have the files run out? | ▶ Check the folder and file numbers. |
| Check3 Are the batteries flat? | Replace the batteries with new ones.(Refer to page 10) |

No sound comes from the earphones.

Is the volume set to '0'?

Adjust the volume
(Refer to page 13)

Is the earphone plugged in?

Plug in the earphone property.

When using MusicFriend

REC/PLAY icons are inactive.

heck 1 Has the sound card been installed?

▶ Install the sound card first and then reinstall 'Music Friend'.

Can't hear the voice due to noise.

Is the volume set excessively high?

The second secon

Adjust the volume of the 'MusicFriend' since excessively high volume may cause noise.

Can't record with an external microphone.

Is the external microphone connected to the PC (sound card)?

➤ Connect the external microphone to the sound card and start recording.(Refer to page 62)

Does the MIC IN (Microphone) become active at the Recording Control Window, when you click the icons of Control Panel> Multimedia>Audio>Recording?

Cancel Mute function if the unit is in the mode, and select the MIC IN.



Specifications

| Classification | Particulars | | Specifications Details | | |
|-----------------|------------------|---|---|--|--|
| | File Support | | MPEG 1/2/2.5/3 Layer3, WMA, ASF | | |
| AUDIO | Channels | | Stereo | | |
| | Frequency Range | | 20 Hz ~20 KHz | | |
| | Earphones output | | 12mW(L)+12mW(R): 16, Maximum volume | | |
| | S/N Ratio | | 90 dB or above (With 20 kHz LPF) | | |
| | Frequency Range | | 87.5мік~108мік(Korea/America/Europe), 76мік~108мік(Japan) | | |
| FM RADIO | Earphone output | | 12mN(L)+12mN(R): 16, Maximum volume | | |
| FM RADIO | S/N Ratio | | 55 dB or above (With 20kbLPF) | | |
| | Receiver Type | | Earphone cable antenna | | |
| | Voice | 256MB | maximum 36hours(16Kbps) | | |
| | Recording Time | 512MB | maximum 72hours(16Kbps) | | |
| | | Voice | Sampling Freq: 16 KHz/22.05 KHz | | |
| Recording | Sound quality | Recording | Bit Rate : 16,32,48/64,96Kbps | | |
| Recording | | Recording by Connecting External Devices | Sampling Freq: 44.1 KHz/48 KHz | | |
| | | | Bit Rate: 64, 96, 128, 192/256Kbps | | |
| | | FM Radio | Sampling Freq :44.1 KHz | | |
| | | FIVI RAUIO | Bit Rate : 64, 96, 128, 160, 192Kbps | | |
| Format | Decode Format | | MP3, WMA, ASF | | |
| 1 Ulliat | Encode Format | | MP3 | | |
| PC Interface | System OS | | Windows 98/ME/2000/XP/MAC OS (9.0 or above) | | |
| Power Supply | Power | | AAA battery × 2 | | |
| r ower Supply | Playing | | Earphone Playback Time approximately 16 hrs | | |
| | Dimensions | | 35×17×75(mm) | | |
| General Details | Weight | | Approximately 40g (batteries excluded) | | |
| | Accessories | | Two batteries (AAA), earphone, USB connection cable, | | |
| | | | MusicFriend/TTS CD, User's manual/Warranty, Strap, | | |
| | | | External device connection cable | | |
| | | | Optional Item External microphone(Built in Amp) | | |

FCC note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation

This equipment generates, uses and can radiate radio frequency energy and. if not installed and used in accordance with the instructions. may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.



| MEMO |
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Warranty

| Product | DIGITAL AUDIO PLAYER | | Model | | | |
|------------------|------------------------|-----------|------------|----|----|----|
| Assurance period | 1 YEAR | Item | Sales date | уу | mm | dd |
| Customer | Address Name | | tel | | | |
| | | signature | | | | |
| Sales agency | Address Agency name | | tel | | | |
| | | signature | | | | |